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(Contract NASw-2035)

(NASA-TT-F-13324) Avail NTIS CSCL 08G

The relationship between the elastic and the optical anisotropy was studied by Kasahara and a few other minerals. It was found that the direction of the large refractive index was parallel to the direction of the linear compressibility. The direction of the optical refractive index, the direction of the wave velocity is similar and the linear compressibility is large. This relation is represented by the empirical formula that $\Delta V = 0.7 \Delta N$ km/s and the anisotropy on the linear compressibility is $12.5 \Delta N$ where ΔN is double refraction. ΔV is the value of the anisotropy on the longitudinal wave velocity. However the relationship of ΔV to ΔN is considerably different from the relationship between the mean longitudinal wave velocity and the mean optical refractive index. $\Delta N = 19.5$ km/s.

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The relationship between the elastic and the optical anisotropy was studied for minerals and a few other materials. It was found to be probable that in the majority of the large refractive index materials the linear compressibility and the optical compressibility are proportional to the variation of the mean refractive index. The optical wave velocity is smaller and the linear compressibility larger. This relation is represented by the empirical formula that $\Delta V/V = 0.7 \Delta N/N$ km/s, and the anisotropy on the linear compressibility is $12.5 \Delta N/N$, where $\Delta N/N$ is double refraction. $\Delta N/N$ is the value of the anisotropy on the longitudinal compressibility. However, the relationship of $\Delta V/V$ to $\Delta N/N$ is considerably different from the relationship between the mean optical wave velocity and the mean optical refractive index. $\Delta N/N = 19.5$ km/s.

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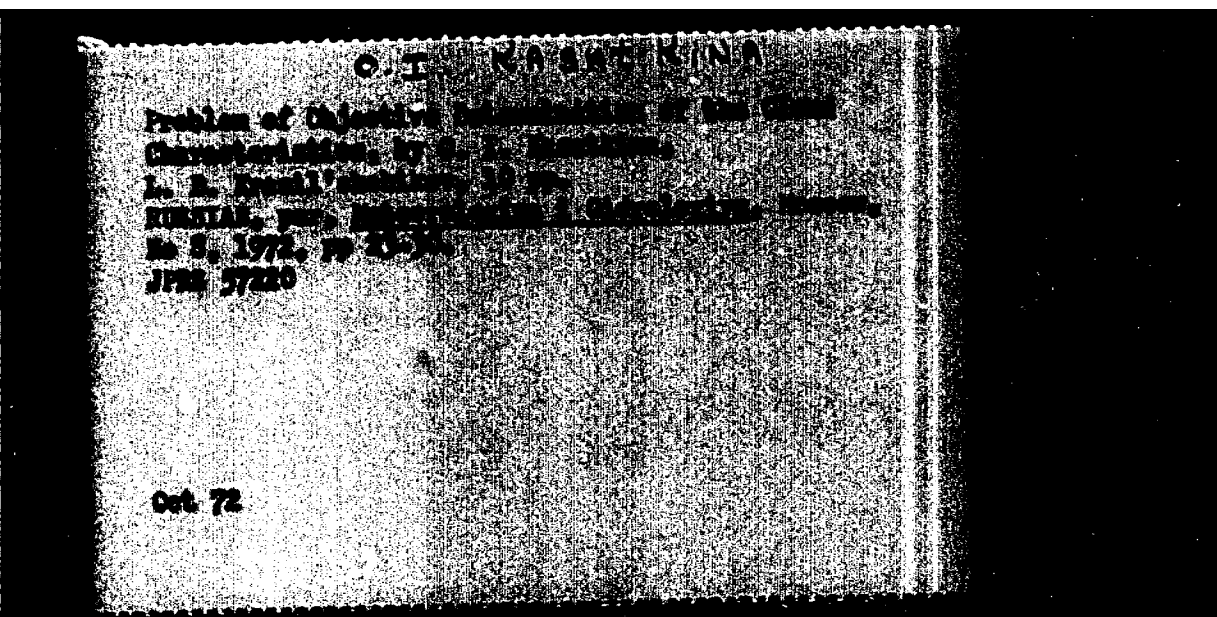
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